

1/30

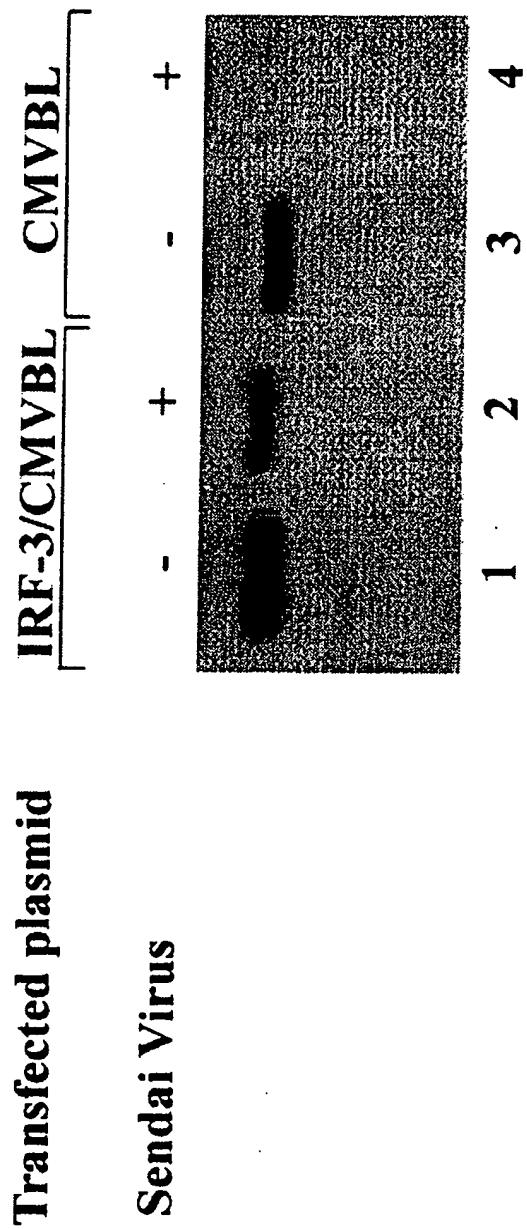
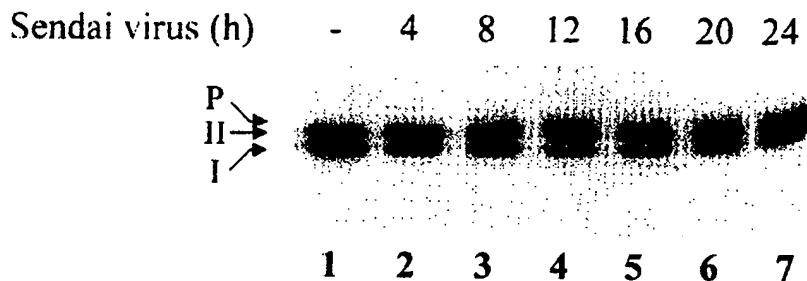
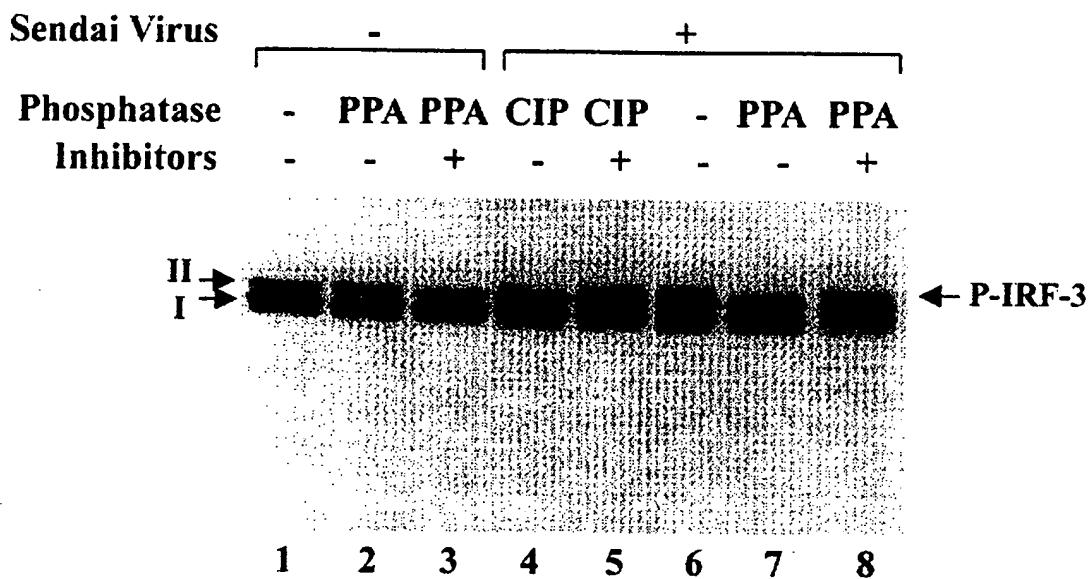


FIG. 1

2/30

**FIG. 2A****FIG. 2B**

3/30

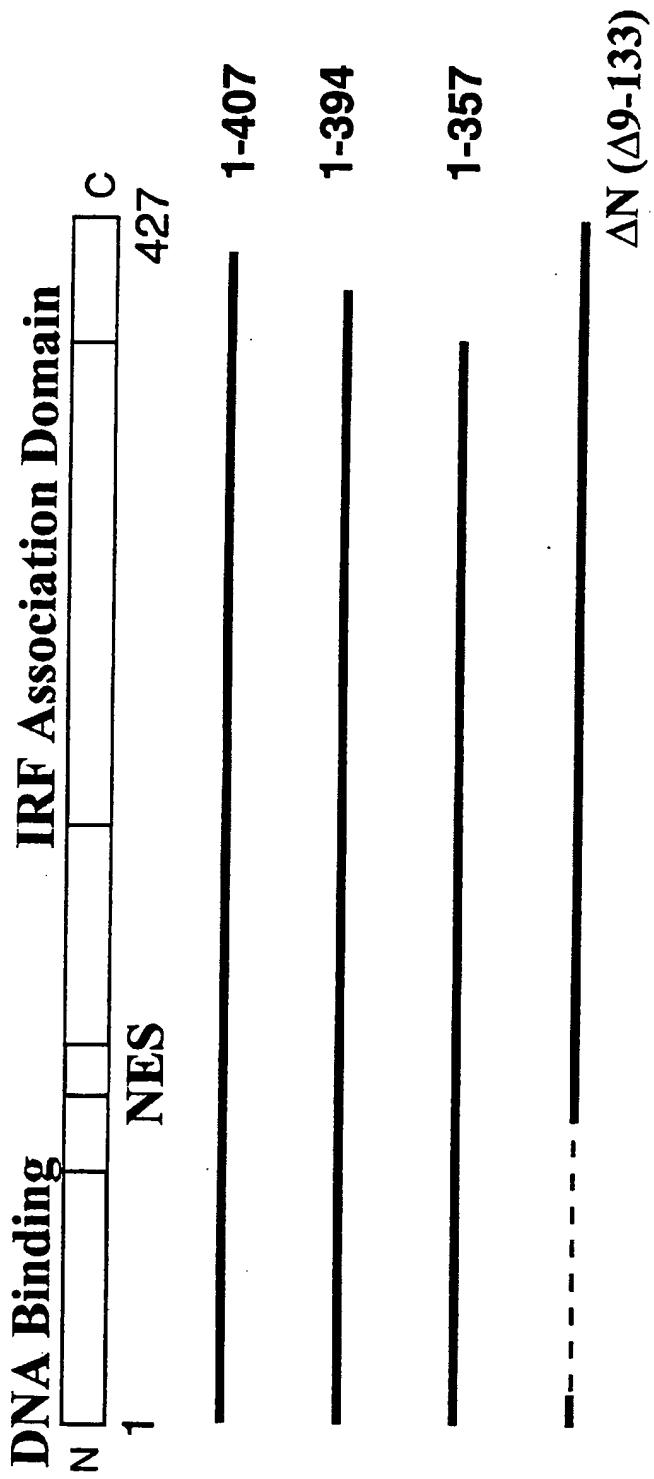


FIG. 3A

4/30

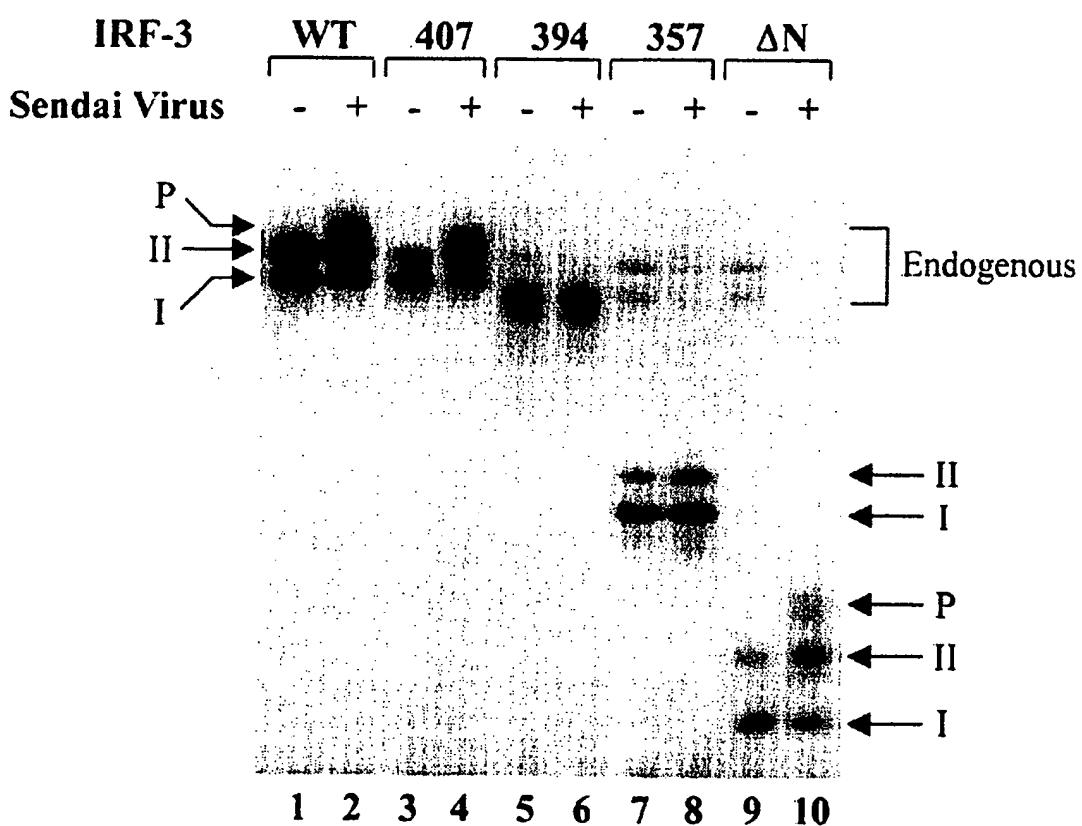


FIG. 3B

5/30

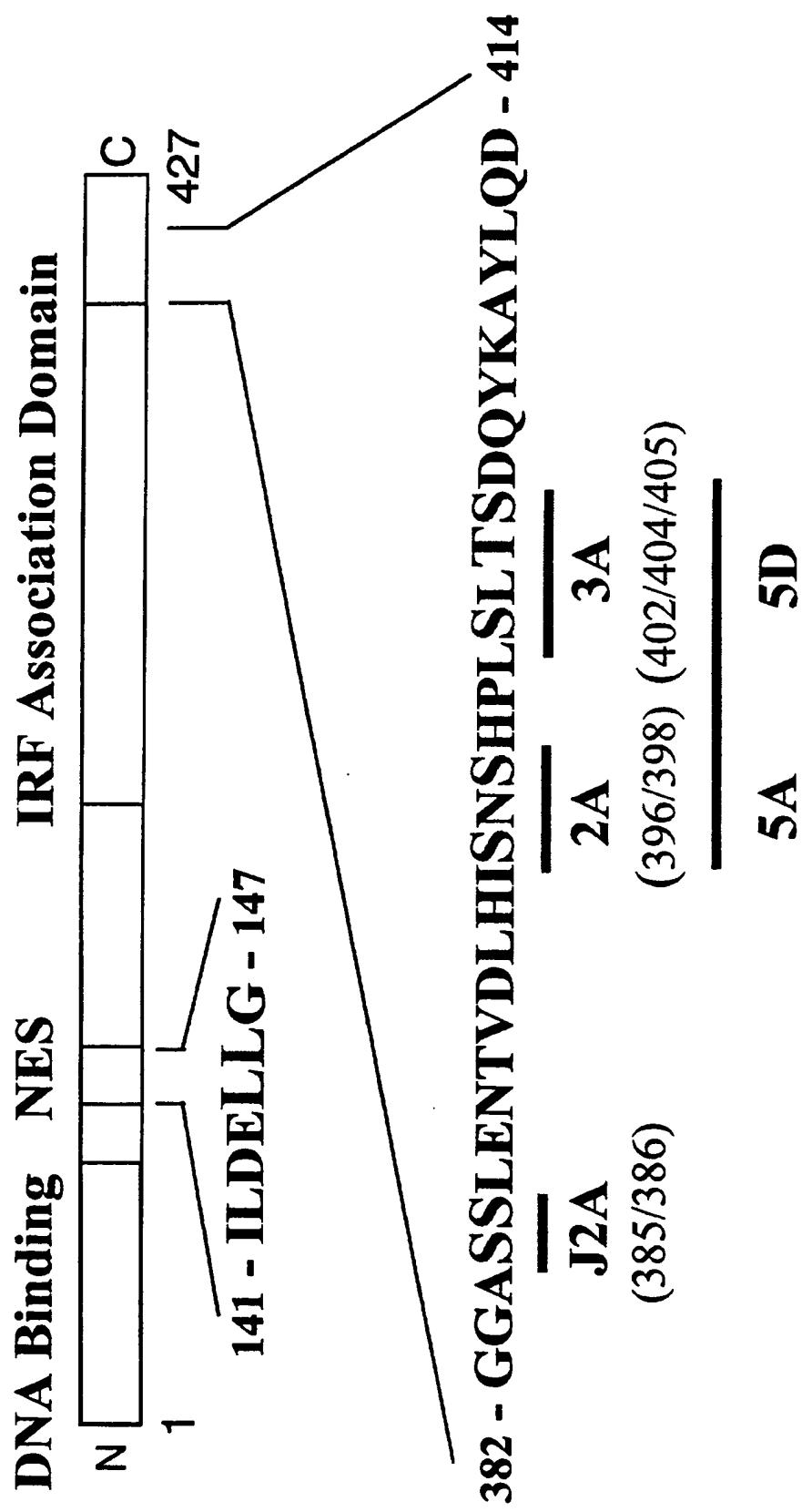


FIG. 4A

09/647965
PCT/CA99/00314

WO 99/51737

6/30

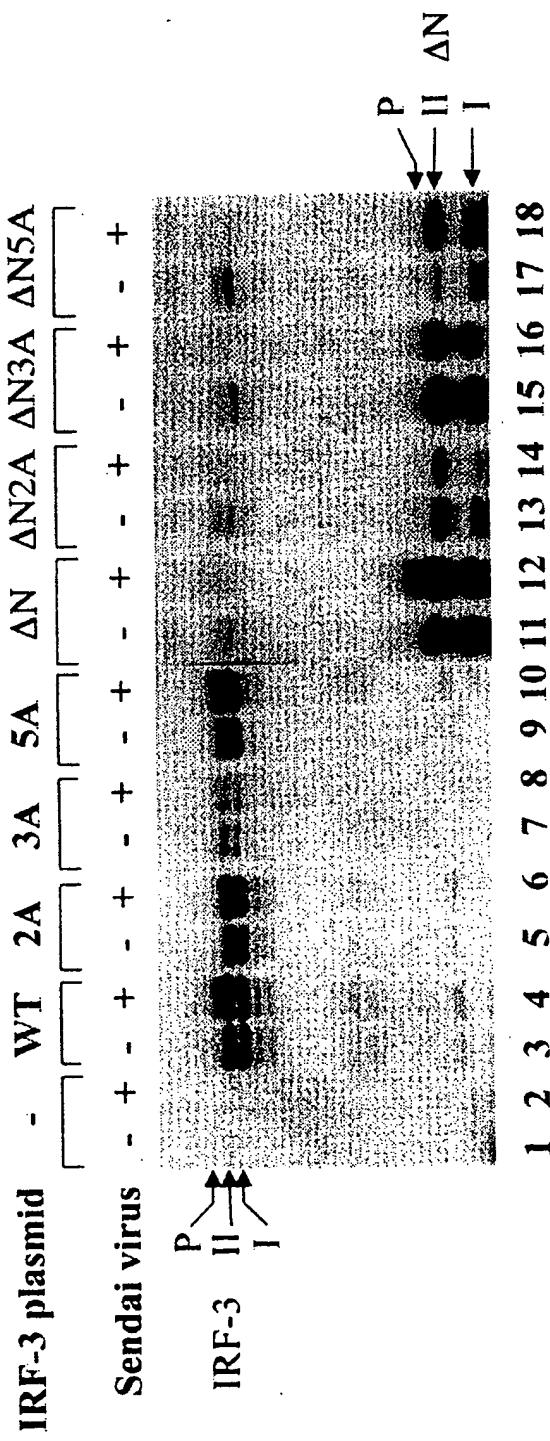


FIG. 4B

09/647965

PCT/CA99/00314

WO 99/51737

7/30

FIG. 5A
wtIRF-3

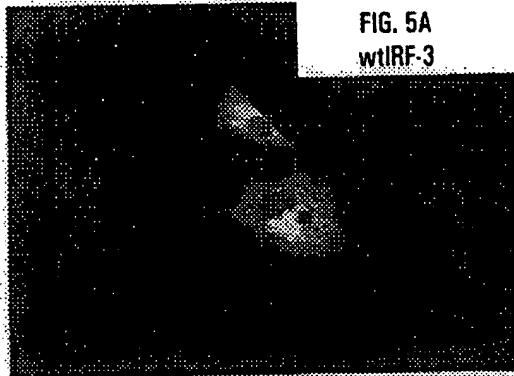


FIG. 5B
wtIRF-3

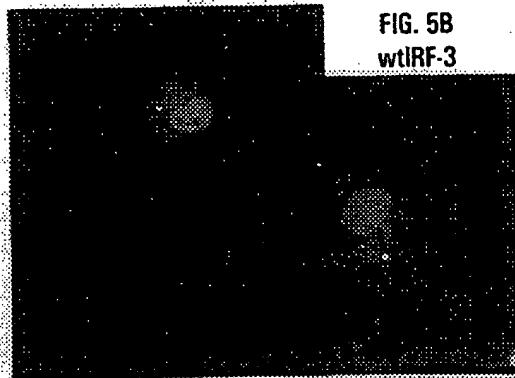


FIG. 5C
IRF-3(5A)

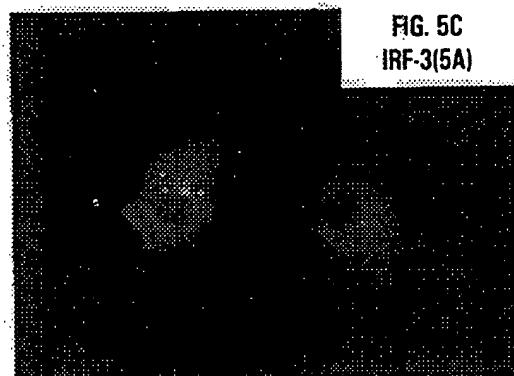


FIG. 5D
IRF-3(5A)

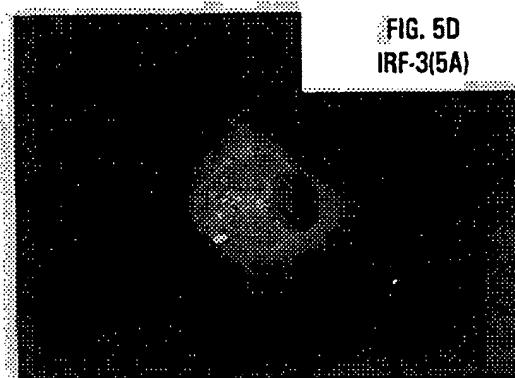


FIG. 5E
IRF-3(5D)

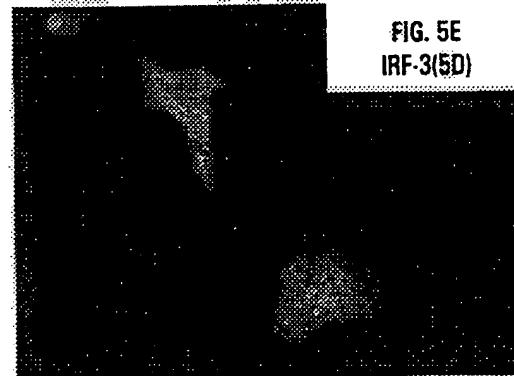


FIG. 5F
IRF-3(5D)

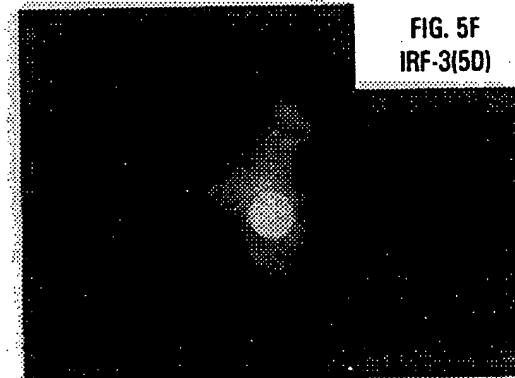


FIG. 5G
IRF-3(NES)

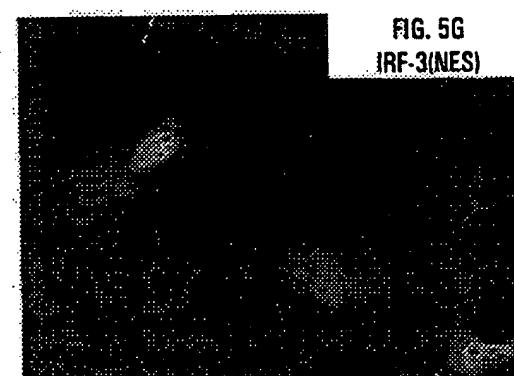
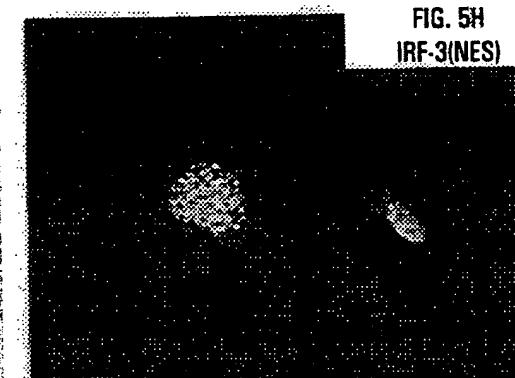


FIG. 5H
IRF-3(NES)



8/30

IFN β -CAT

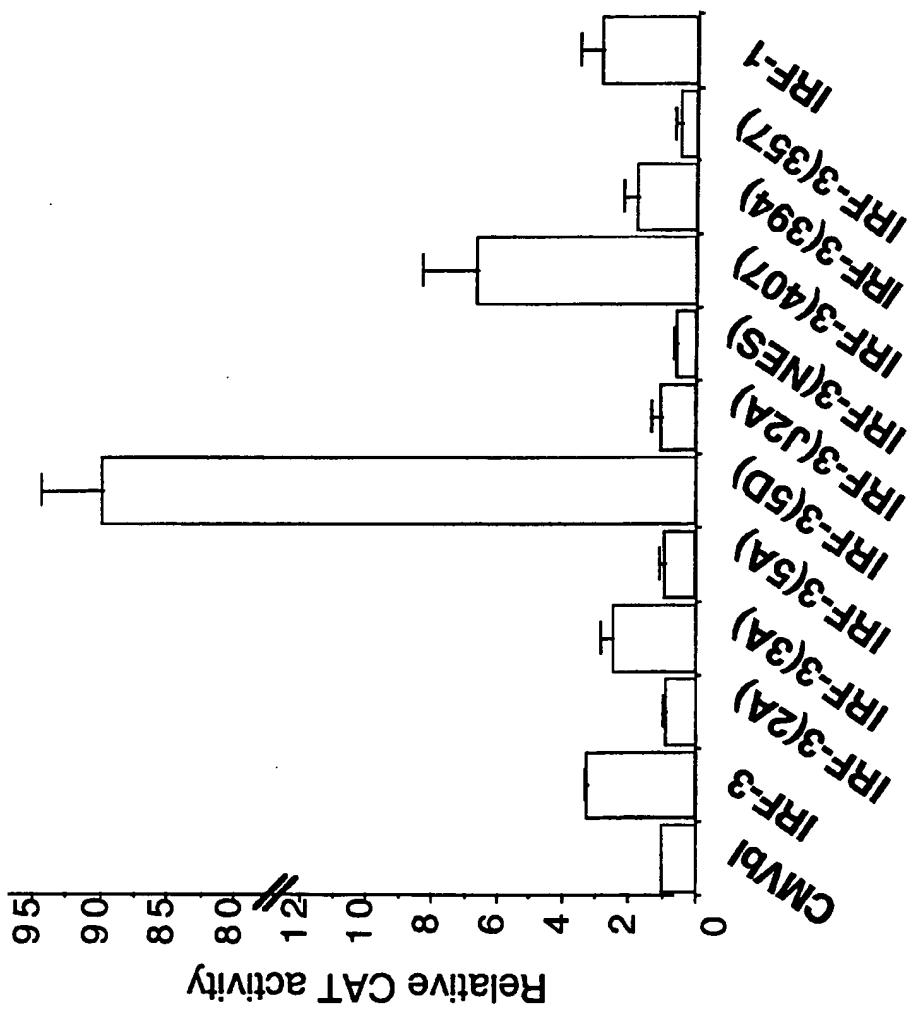


FIG. 6A

9/30

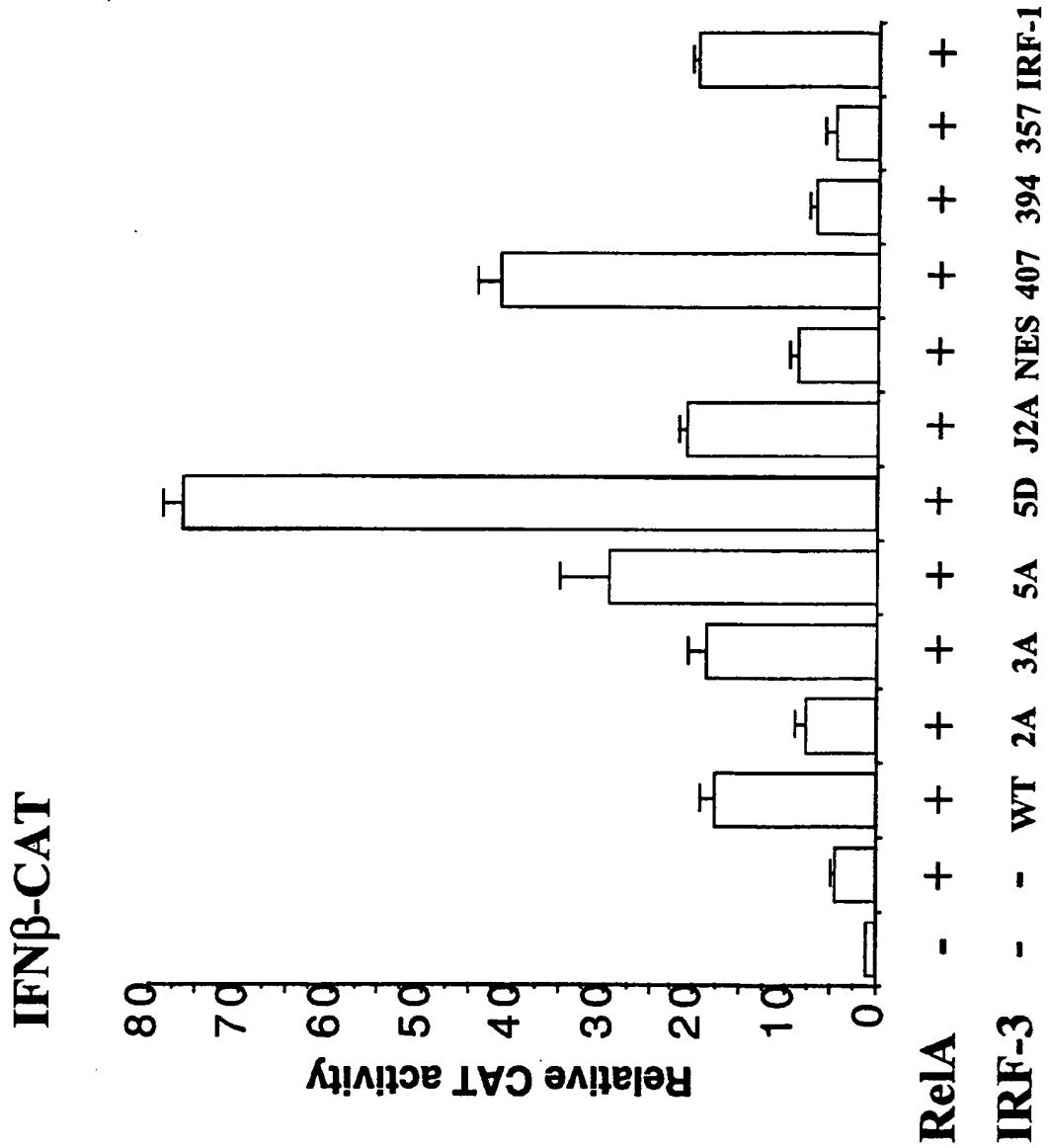


FIG. 6B

10/30

ISG15-CAT

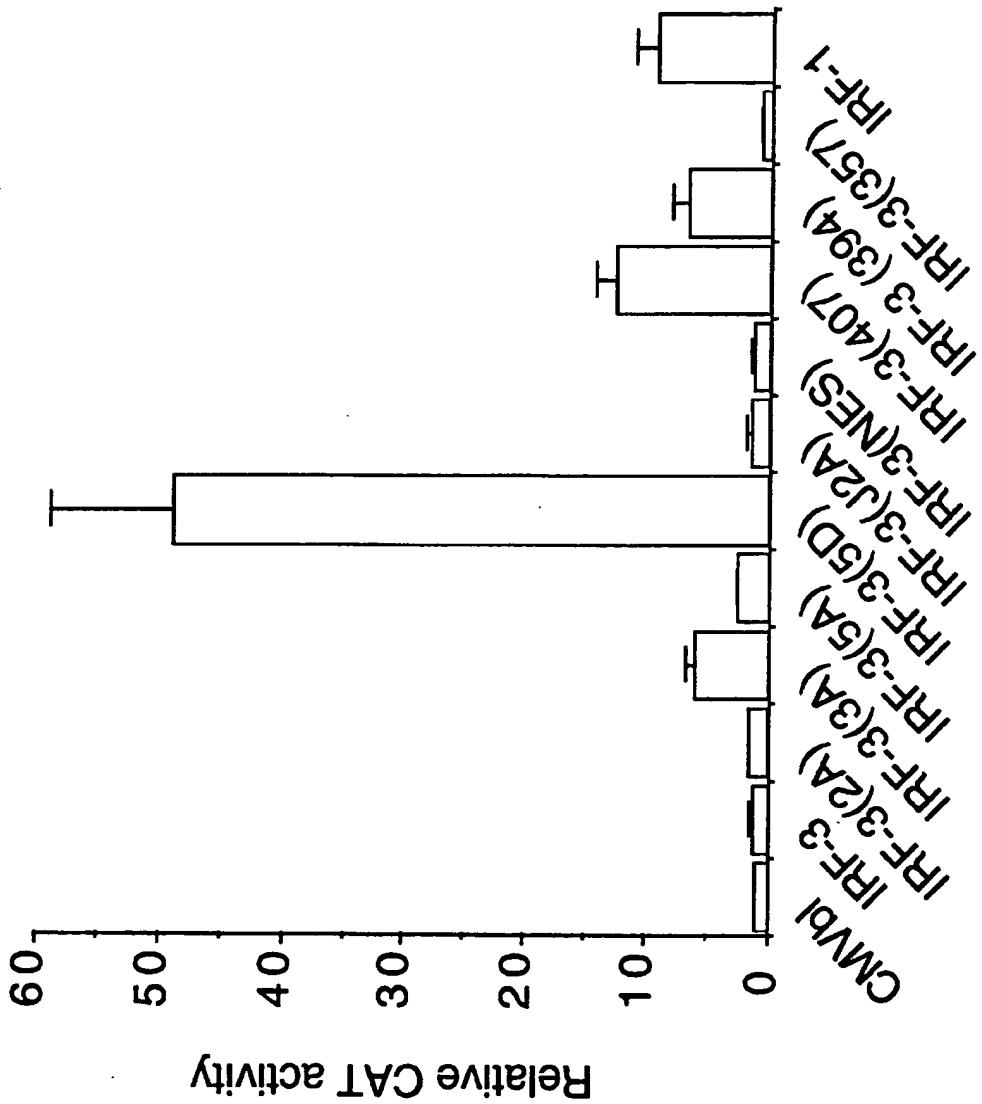


FIG. 6C

11/30

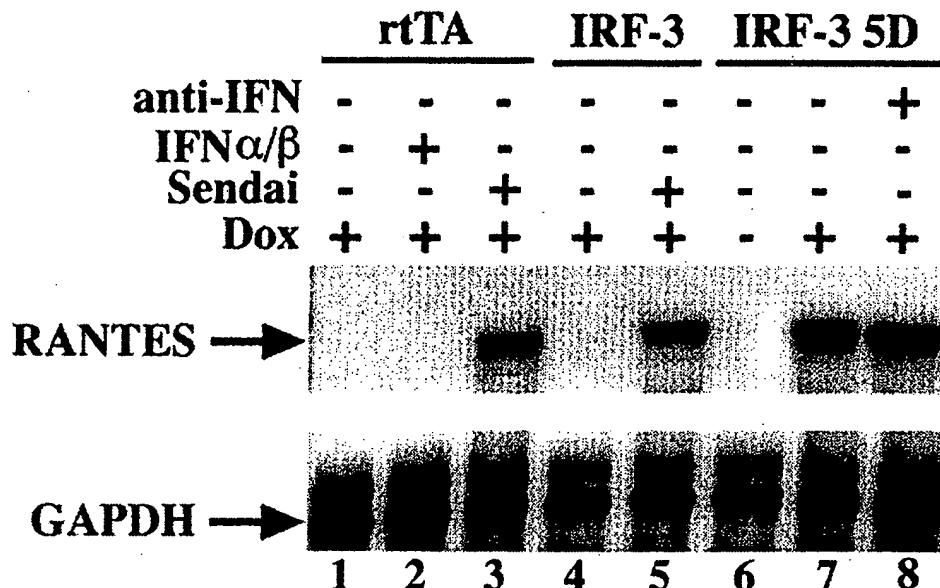


FIG. 7A

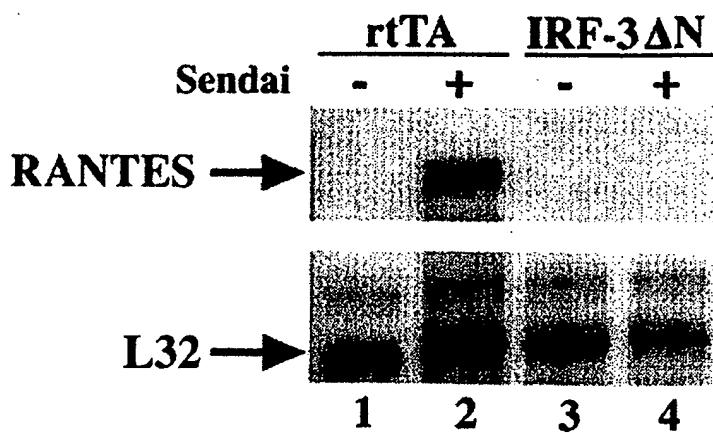


FIG. 7B

12/30

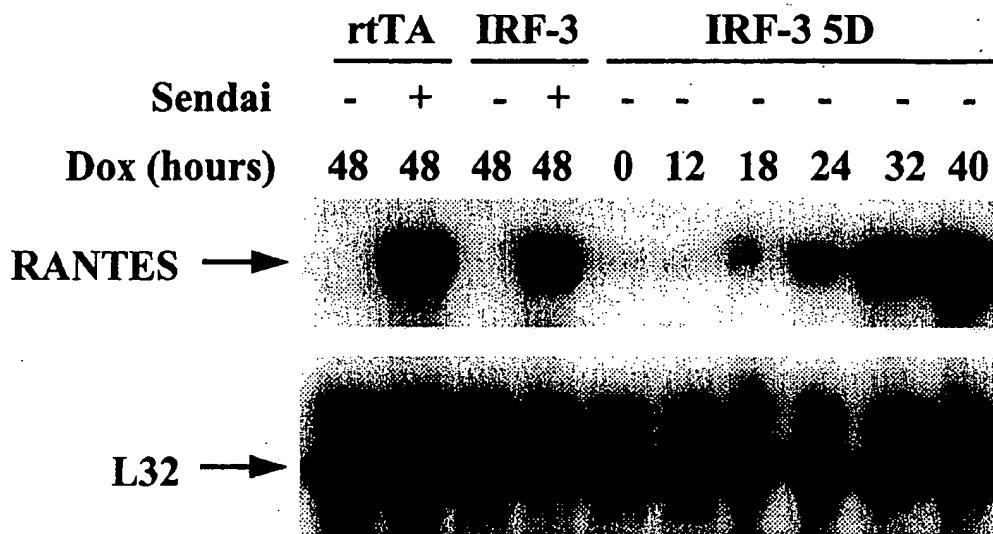


FIG. 7C

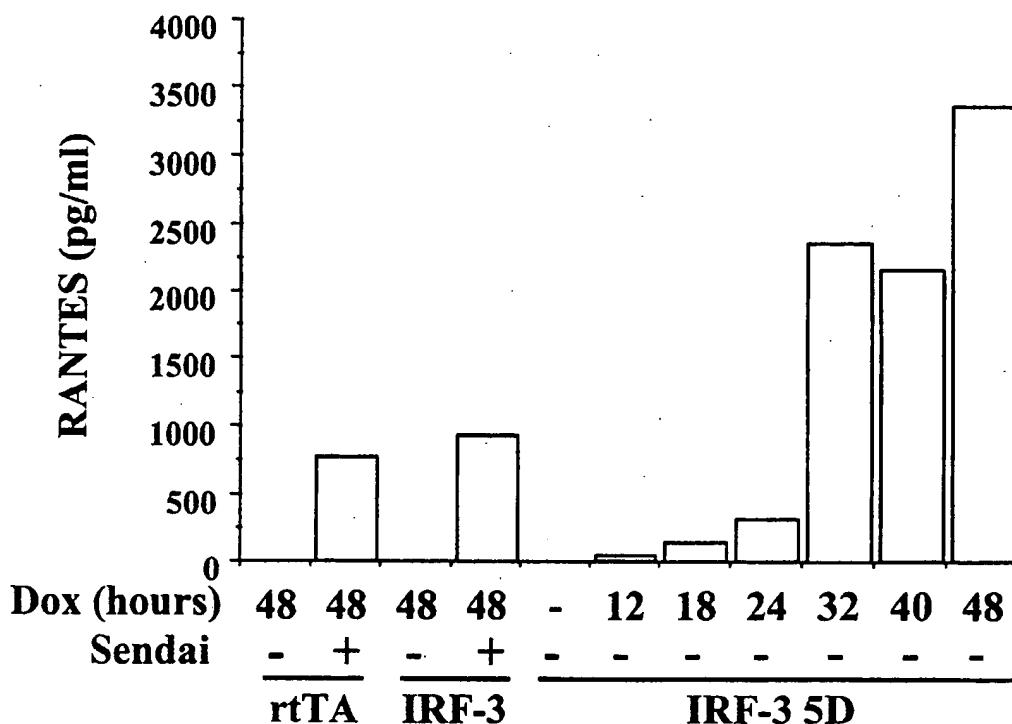
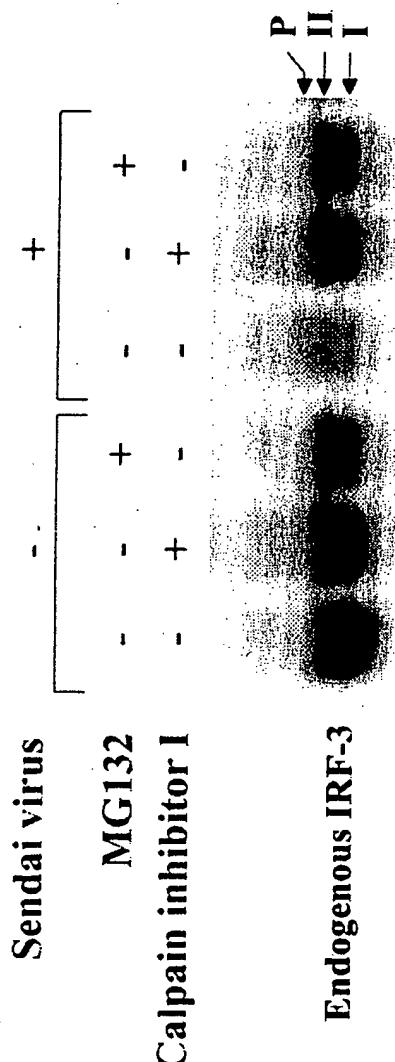
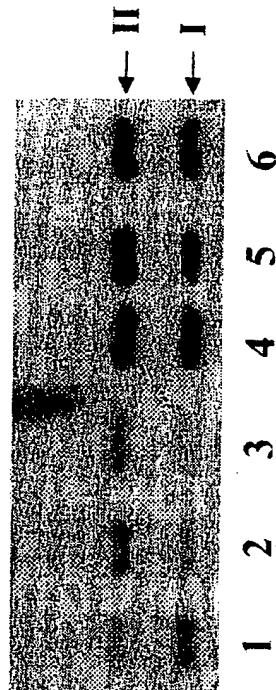


FIG. 7D

13/30

**FIG. 8A** Endogenous IRF-3**FIG. 8B** IRF-3 Δ N**FIG. 8C** IRF-3 Δ N5A

14/30

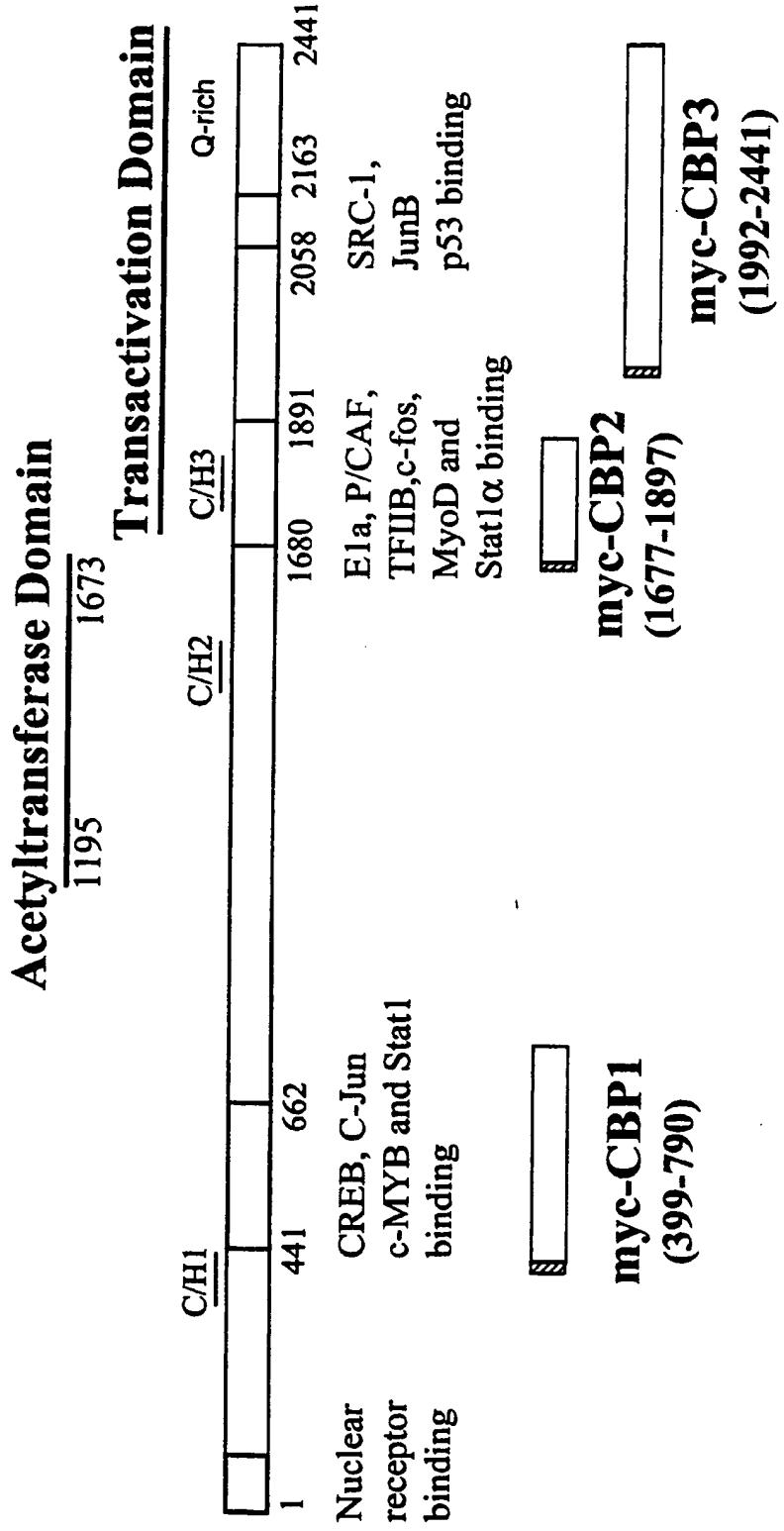


FIG. 9A

09/647965

PCT/CA99/00314

WO 99/51737

15/30

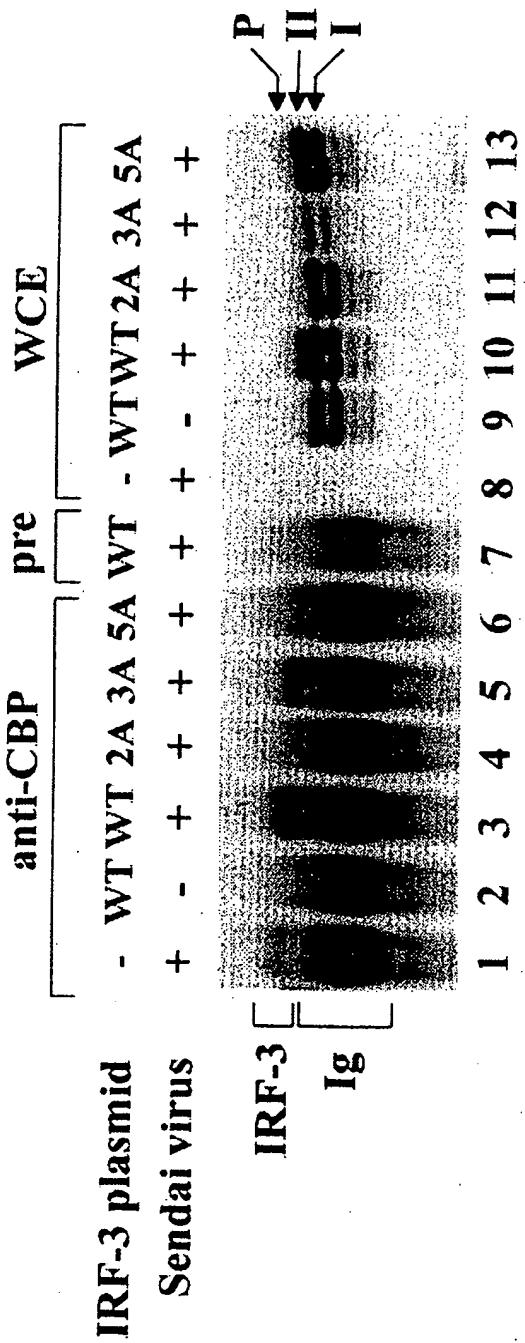


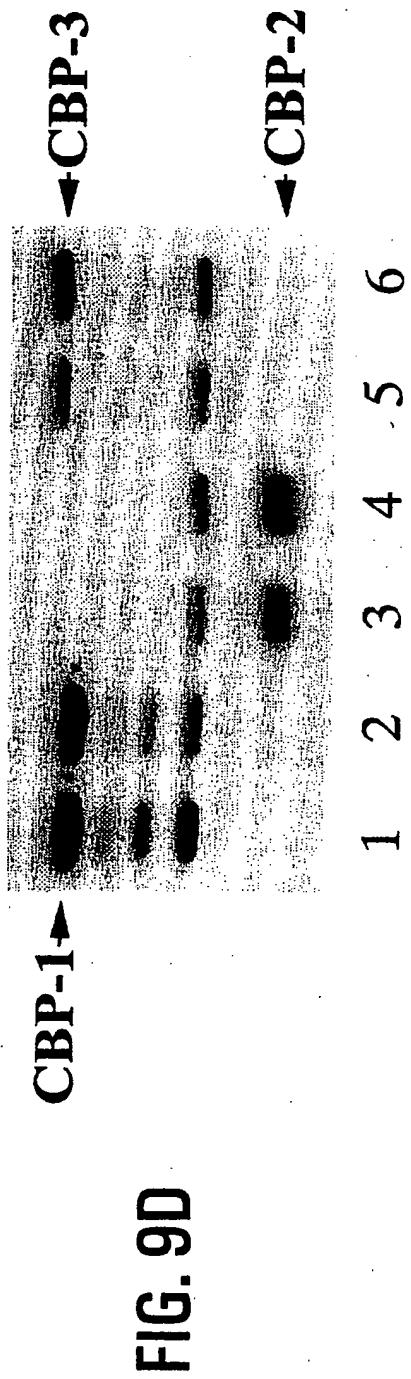
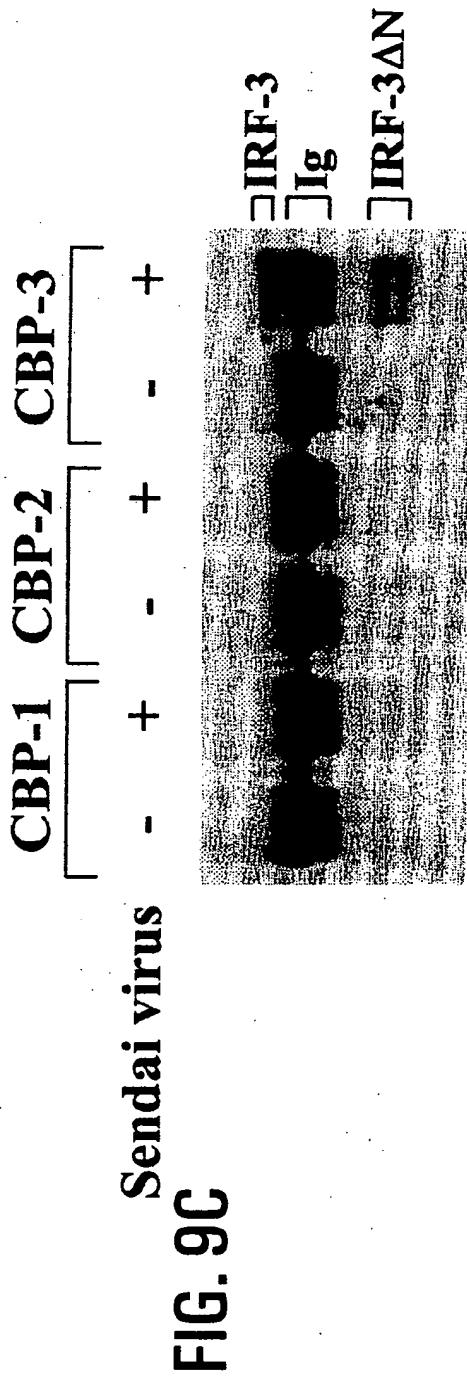
FIG. 9B

09/647965

PCT/CA99/00314

WO 99/51737

16/30



17/30

10	20	30	40		
*	*	*	*		
ATG GGA ACC CCA AAG CCA CGG ATC CTG CCC TGG CTG GTG TCG CAG CTG	TAC CCT TGG GGT TTC GGT GCC TAG GAC GGG ACC GAC CAC AGC GTC GAC	M G T P K R I L P W L V S Q L>			
50	60	70	80	90	
*	*	*	*	*	
GAC CTG GGG CAA CTG GAG GGC GTG GCC TGG GTG AAC AAG AGC CGC ACG	CTG GAC CCC GTT GAC CTC CCG CAC CGG ACC CAC TTG TTC TCG GCG TGC	D L G Q L E G V A W V N K S R T>			
100	110	120	130	140	
*	*	*	*	*	
CGC TTC CGC ATC CCT TGG AAG CAC GGC CTA CGG CAG GAT GCA CAG CAG	GCG AAG GCG TAG GGA ACC TTC GTG CCG GAT GCC GTC CTA CGT GTC GTC	R F R I P W K H G L R Q D A Q Q>			
150	160	170	180	190	
*	*	*	*	*	
GAG GAT TTC GGA ATC TTC CAG GCC TGG GCC GAG GCC ACT GGT GCA TAT	CTC CTA AAG CCT TAG AAG GTC CGG ACC CGG CTC CGG TGA CCA CGT ATA	E D F G I F Q A W A E A T G A Y>			
200	210	220	230	240	
*	*	*	*	*	
GTT CCC GGG AGG GAT AAG CCA GAC CTG CCA ACC TGG AAG AGG AAT TTC	CAA GGG CCC TCC CTA TTC GGT CTG GAC GGT TGG ACC TTC TCC TTA AAG	V P G R D K P D L P T W K R N F>			
250	260	270	280		
*	*	*	*		
CGC TCT GCC CTC AAC CGC AAA GAA GGG TTG CGT TTA GCA GAG GAC CGG	GCG AGA CGG GAG TTG GCG TTT CTT CCC AAC GCA AAT CGT CTC CTG GCC	R S A L N R K E G L R L A E D R>			
290	300	310	320	330	
*	*	*	*	*	
AGC AAG GAC CCT CAC GAC CCA CAT AAA ATC TAC GAG TTT GTG AAC TCA	TCG TTC CTG GGA GTG CTG GGT GTA TTT TAG ATG CTC AAA CAC TTG AGT	S K D P H D P H K I Y E F V N S>			
340	350	360	370	380	
*	*	*	*	*	
GGA GTT GGG GAC TTT TCC CAG CCA GAC ACC TCT CCG GAC ACC AAT GGT	CCT CAA CCC CTG AAA AGG GTC GGT CTG TGG AGA GGC CTG TGG TTA CCA	G V G D F S Q P D T S P D T N G>			
390	400	410	420	430	
*	*	*	*	*	
GGA GGC AGT ACT TCT GAT ACC CAG GAA GAC ATT CTG GAT GAG TTA CTG	CCT CCG TCA TGA AGA CTA TGG GTC CTT CTG TAA GAC CTA CTC AAT GAC	G G S T S D T Q E D I L D E L L>			

FIG. 10

18/30

440 * 450 * 460 * 470 * 480 *

GGT AAC ATG GTG TTG GCC CCA CTC CCA GAT CCG GGA CCC CCA AGC CTG
CCA TTG TAC CAC AAC CGG GGT GAG GGT CTA GGC CCT GGG GGT TCG GAC
G N M V L A P L P D P G P P S L>

490 * 500 * 510 * 520 *

GCT GTA GCC CCT GAG CCC TGC CCT CAG CCC CTG CGG AGC CCC AGC TTG
CGA CAT CGG GGA CTC GGG ACG GGA GTC GGG GAC GCC TCG GGG TCG AAC
A V A P E P C P Q P L R S P S L>

530 * 540 * 550 * 560 * 570 *

GAC AAT CCC ACT CCC TTC CCA AAC CTG GGG CCC TCT GAG AAC CCA CTG
CTG TTA GGG TGA GGG AAG GGT TTG GAC CCC GGG AGA CTC TTG GGT GAC
D N P T P F P N L G P S E N P L>

580 * 590 * 600 * 610 * 620 *

AAG CGG CTG TTG GTG CCG GGG GAA GAG TGG GAG TTC GAG GTG ACA GCC
TTC GCC GAC AAC CAC GGC CCC CTT CTC ACC CTC AAG CTC CAC TGT CGG
K R L L V P G E E W E F E V T A>

630 * 640 * 650 * 660 * 670 *

TTC TAC CGG GGC CGC CAA GTC TTC CAG CAG ACC ATC TCC TGC CCG GAG
AAG ATG GCC CCG GCG GTT CAG AAG GTC GTC TGG TAG AGG ACG GGC CTC
F Y R G R Q V F Q Q T I S C P E>

680 * 690 * 700 * 710 * 720 *

GGC CTG CGG CTG GTG GGG TCC GAA GTG GGA GAC AGG ACG CTG CCT GGA
CCG GAC GCC GAC CAC CCC AGG CTT CAC CCT CTG TCC TGC GAC GGA CCT
G L R L V G S E V G D R T L P G>

730 * 740 * 750 * 760 *

TGG CCA GTC ACA CTG CCA GAC CCT GGC ATG TCC CTG ACA GAC AGG GGA
ACC GGT CAG TGT GAC GGT CTG GGA CCG TAC AGG GAC TGT CTG TCC CCT
W P V T L P D P G M S L T D R G>

770 * 780 * 790 * 800 * 810 *

G TG ATG AGC TAC GTG AGG CAT GTG CTG AGC TGC CTG GGT GGG GGA CTG
CAC TAC TCG ATG CAC TCC GTA CAC GAC TCG ACG GAC CCA CCC CCT GAC
V M S Y V R H V L S C L G G G L>

820 * 830 * 840 * 850 * 860 *

GCT CTC TGG CGG GCC GGG CAG TGG CTC TGG GCC CAG CGG CTG GGG CAC
CGA GAG ACC GCC CGG CCC GTC ACC GAG ACC CGG GTC GCC GAC CCC GTG
A L W R A G Q W L W A Q R L G H>

870 * 880 * 890 * 900 * 910 *

TGC CAC ACA TAC TGG GCA GTG AGC GAG GAG CTG CTC CCC AAC AGC GGG
ACG GTG TGT ATG ACC CGT CAC TCG CTC CTC GAC GAG GGG TTG TCG CCC
C H T Y W A V S E E L L P N S G>

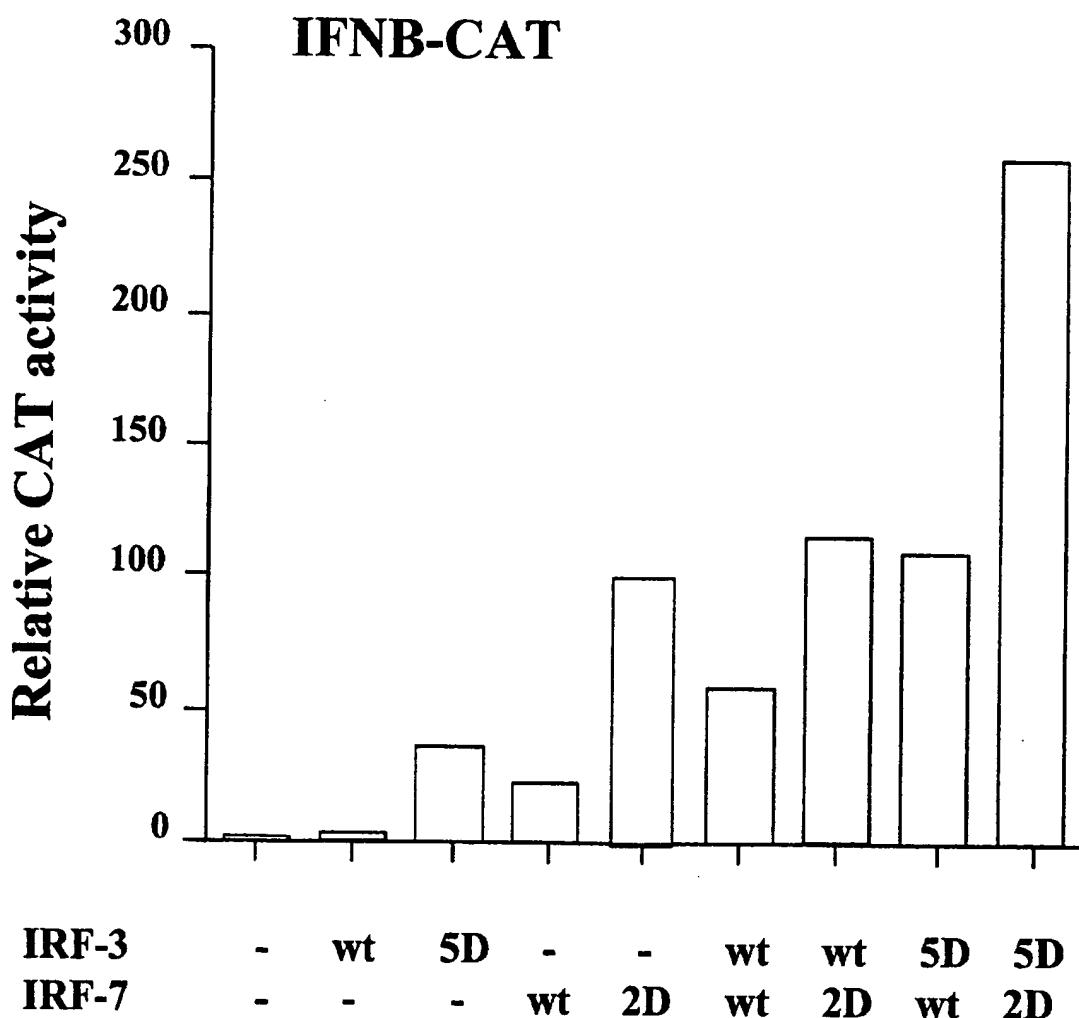
FIG. 10
CONTINUED

19/30

920	930	940	950	960
*	*	*	*	*
CAT GGG CCT GAT GGC GAG GTC CCC AAG GAC AAG GAA GGA GGC GTG TTT				
GTA CCC GGA CTA CCG CTC CAG GGG TTC CTG TTC CTT CCT CCG CAC AAA				
H	G	P	D	G>
E	V	P	K	D
			K	E
			G	G
			V	F>
970	980	990	1000	
*	*	*	*	
GAC CTG GGG CCC TTC ATT GTA GAT CTG ATT ACC TTC ACG GAA GGA AGC				
CTG GAC CCC GGG AAG TAA CAT CTA GAC TAA TGG AAG TGC CTT CCT TCG				
D	L	G	P	F>
I	V	D	L	I
T		T	F	T
E		G	E	S>
1010	1020	1030	1040	1050
*	*	*	*	*
GGA CGC TCA CCA CGC TAT GCC CTC TGG TTC TGT GTG GGG GAG TCA TGG				
CCT GCG AGT GGT GCG ATA CGG GAG ACC AAG ACA CAC CCC CTC AGT ACC				
G	R	S	P	R>
			Y	A
			L	W
			F	C
			V	V
			G	E
			S	W>
1060	1070	1080	1090	1100
*	*	*	*	*
CCC CAG GAC CAG CCG TGG ACC AAG AGG CTC GTG ATG GTC AAG GTT GTG				
GGG GTC CTG GTC GGC ACC TGG TTC TCC GAG CAC TAC CAG TTC CAA CAC				
P	Q	D	Q	P>
			W	T
			K	R
			L	V
			M	M
			V	V
			K	V
			V	V>
1110	1120	1130	1140	1150
*	*	*	*	*
CCC ACG TGC CTC AGG GCC TTG GTA GAA ATG GCC CGG GTA GGG GGT GCC				
GGG TGC ACG GAG TCC CGG AAC CAT CTT TAC CGG GCC CAT CCC CCA CGG				
P	T	C	L	R>
			R	A
			L	V
			E	M
			M	A
			R	R
			V	V
			G	G
			A	A>
1160	1170	1180	1190	1200
*	*	*	*	*
TCC TCC CTG GAG AAT ACT GTG GAC CTG CAC ATT GAC AAC GAC CAC CCA				
AGG AGG GAC CTC TTA TGA CAC CTG GAC GTG TAA CTG TTG CTG GTG GGT				
S	S	L	E	N>
			N	T
			V	D
			D	L
			H	I
			I	D
			D	N
			N	D
			H	H
			P	>
1210	1220	1230	1240	
*	*	*	*	
CTC GAC CTC GAC GAC GAC CAG TAC AAG GCC TAC CTG CAG GAC TTG GTG				
GAG CTG GAG CTG CTG GTC ATG TTC CGG ATG GAC GTC CTG AAC CAC				
L	D	L	D	D>
			D	D
			Q	Y
			Y	K
			K	A
			A	Y
			Y	L
			L	Q
			Q	D
			D	L
			L	V>
1250	1260	1270	1280	
*	*	*	*	
GAG GGC ATG GAT TTC CAG GGC CCT GGG GAG AGC TGA				
CTC CCG TAC CTA AAG GTC CCG GGA CCC CTC TCG ACT				
E	G	M	D	F>
			F	Q
			Q	G
			G	P
			P	G
			G	E
			E	S>

FIG. 10
CONTINUED

20/30

**FIG. 11**

21/30

10	20	30	40													
*	*	*	*													
ATG	GCC	TTG	GCT	CCT	GAG	AGG	GCA	GCC	CCA	CGC	GTG	CTG	TTC	GGA	GAG	
TAC	CGG	AAC	CGA	GGG	CTC	TCC	CGT	CGG	GGT	GCG	CAC	GAC	AAG	CCT	CTC	
M	A	L	A	P	E	R	A	A	P	R	V	L	F	G	E>	
50	60	70	80	90												
*	*	*	*	*												
TGG	CTC	CTT	GGA	GAG	ATC	AGC	AGC	GGC	TGC	TAT	GAG	GGG	CTG	CAG	TGG	
ACC	GAG	GAA	CCT	CTC	TAG	TCG	TCG	CCG	ACG	ATA	CTC	CCC	GAC	GTC	ACC	
W	L	L	G	E	I	S	S	G	C	Y	E	G	L	Q	W>	
100	110	120	130	140												
*	*	*	*	*												
CTG	GAC	GAG	GCC	CGC	ACC	TGT	TTC	CGC	GTG	CCC	TGG	AAG	CAC	TTC	GCG	
GAC	CTG	CTC	CGG	GCG	TGG	ACA	AAG	GCG	CAC	GGG	ACC	TTC	GTG	AAG	CGC	
L	D	E	A	R	T	C	F	R	V	P	W	K	H	F	A>	
150	160	170	180	190												
*	*	*	*	*												
CGC	AAG	GAC	CTG	AGC	GAG	GCC	GAC	GCG	CGC	ATC	TTC	AAG	GCC	TGG	GCT	
GCG	TTC	CTG	GAC	TCG	CTC	CGG	CTG	CGC	GCG	TAG	AAG	TTC	CGG	ACC	CGA	
R	K	D	L	S	E	A	D	A	R	I	F	K	A	W	A>	
200	210	220	230	240												
*	*	*	*	*												
GTG	GCC	CGC	GGC	AGG	TGG	CCG	CCT	AGC	AGC	AGG	GGA	GGT	GGC	CCG	CCC	
CAC	CGG	GCG	CCG	TCC	ACC	GGC	GGA	TCG	TCG	TCC	CCT	CCA	CCG	GGC	GGG	
V	A	R	G	R	W	P	P	S	S	R	G	G	G	P	P>	
250	260	270	280													
*	*	*	*													
CCC	GAG	GCT	GAG	ACT	GCG	GAG	CGC	GCC	GGC	TGG	AAA	ACC	AAC	TTC	CGC	
GGG	CTC	CGA	CTC	TGA	CGC	CTC	GCG	CGG	CCG	ACC	TTT	TGG	TTG	AAG	GCG	
P	E	A	E	T	A	E	R	A	G	W	K	T	N	F	R>	
290	300	310	320	330												
*	*	*	*	*												
TGC	GCA	CTG	CGC	AGC	ACG	CGT	CGC	TTC	GTG	ATG	CTG	CGG	GAT	AAC	TCG	
ACG	CGT	GAC	GCG	TCG	TGC	GCA	GCG	AAG	CAC	TAC	GAC	GCC	CTA	TTG	AGC	
C	A	L	R	S	T	R	R	F	V	M	L	R	D	N	S>	
340	350	360	370	380												
*	*	*	*	*												
GGG	GAC	CCG	GCC	GAC	CCG	CAC	AAG	GTG	TAC	GCG	CTC	AGC	CGG	GAG	CTG	
CCC	CTG	GGC	CGG	CTG	GGC	GTG	TTC	CAC	ATG	GCG	GAG	TCG	GCC	CTC	GAC	
G	D	P	A	D	P	H	K	V	Y	A	L	S	R	E	L>	

FIG. 12

22/30

390	400	410	420	430
*	*	*	*	*
TGC TGG CGA GAA GGC CCA GGC ACG GAC CAG ACT GAG GCA GAG GCC CCC				
ACG ACC GCT CTT CCG GGT CCG TGC CTG GTC TGA CTC CGT CTC CGG GGG				
C W R E G P G T D Q T E A E A P>				
440 450 460 470 480				
*	*	*	*	*
GCA GCT GTC CCA CCA CAG GGT GGG CCC CCA GGG CCA TTC TTG GCA				
CGT CGA CAG GGT GGT GTC CCA CCC GGG GGT CCC GGT AAG AAC CGT				
A A V P P P Q G G P P G P F L A>				
490 500 510 520				
*	*	*	*	*
CAC ACA CAT GCT GGA CTC CAA GCC CCA GGC CCC CTC CCT GCC CCA GCT				
GTG TGT GTA CGA CCT GAG GTT CGG GGT CCG GGG GAG GGA CGG GGT CGA				
H T H A G L Q A P G P L P A P A P A>				
530 540 550 560 570				
*	*	*	*	*
GGT GAC AAG GGG GAC CTC CTG CTC CAG GCA GTG CAA CAG AGC TGC CTG				
CCA CTG TTC CCC CTG GAG GAC GAG GTC CGT CAC GTT GTC TCG ACG GAC				
G D K G D L L Q A V Q Q S C L>				
580 590 600 610 620				
*	*	*	*	*
GCA GAC CAT CTG CTG ACA GCG TCA TGG GGG GCA GAT CCA GTC CCA ACC				
CGT CTG GTA GAC GAC TGT CGC AGT ACC CCC CGT CTA GGT CAG GGT TGG				
A D H L L T A S W G A D P V P T>				
630 640 650 660 670				
*	*	*	*	*
AAG GCT CCT GGA GAG GGA CAA GAA GGG CTT CCC CTG ACT GGG GCC TGT				
TTC CGA GGA CCT CTC CCT GTT CTT CCC GAA GGG GAC TGA CCC CGG ACA				
K A P G E G Q E G L P L T G A C>				
680 690 700 710 720				
*	*	*	*	*
GCT GGA GGC CCA GGG CTC CCT GCT GGG GAG CTG TAC GGG TGG GCA GTA				
CGA CCT CCG GGT CCC GAG GGA CGA CCC CTC GAC ATG CCC ACC CGT CAT				
A G G P G L P A G E L Y G W A V>				
730 740 750 760				
*	*	*	*	*
GAG ACG ACC CCC AGC CCC GGG CCC CAG CCC GCG GCA CTA ACG ACA GGC				
CTC TGC TGG GGG TCG GGG CCC GGG GTC GGG CGC CGT GAT TGC TGT CCG				
E T T P S P G P Q P A A L T T G>				

FIG. 12
CONTINUED

23/30

770	780	790	800	810											
*	*	*	*	*											
GAG	GCC	GCG	GCC	CCA	GAG	TCC	CCG	CAC	CAG	GCA	GAG	CCG	TAC	CTG	TCA
CTC	CGG	CGC	CGG	GGT	CTC	AGG	GGC	GTC	CGT	CTC	GGC	ATG	GAC	AGT	
E	A	A	A	P	E	S	P	H	Q	A	E	P	Y	L	S>
820	830	840	850	860											
*	*	*	*	*											
CCC	TCC	CCA	AGC	GCC	TGC	ACC	GCG	GTG	CAA	GAG	CCC	AGC	CCA	GGG	GCG
GGG	AGG	GGT	TCG	CGG	ACG	TGG	CGC	CAC	GTT	CTC	GGG	TCG	GGT	CCC	CGC
P	S	P	S	A	C	T	A	V	Q	E	P	S	P	G	A>
870	880	890	900	910											
*	*	*	*	*											
CTG	GAC	GTG	ACC	ATC	ATG	TAC	AAG	GGC	CGC	ACG	GTG	CTG	CAG	AAG	GTG
GAC	CTG	CAC	TGG	TAG	TAC	ATG	TTC	CCG	GCG	TGC	CAC	GAC	GTC	TTC	CAC
L	D	V	T	I	M	Y	K	G	R	T	V	L	Q	K	V>
920	930	940	950	960											
*	*	*	*	*											
GTG	GGA	CAC	CCG	AGC	TGC	ACG	TTC	CTA	TAC	GGC	CCC	CCA	GAC	CCA	GCT
CAC	CCT	GTG	GGC	TCG	ACG	TGC	AAG	GAT	ATG	CCG	GGG	GGT	CTG	GGT	CGA
V	G	H	P	S	C	T	F	L	Y	G	P	P	D	P	A>
970	980	990	1000												
*	*	*	*												
GTC	CGG	GCC	ACA	GAC	CCC	CAG	CAG	GTA	GCA	TTC	CCC	AGC	CCT	GCC	GAG
CAG	GCC	CGG	TGT	CTG	GGG	GTC	GTC	CAT	CGT	AAG	GGG	TCG	GGA	CGG	CTC
V	R	A	T	D	P	Q	Q	V	A	F	P	S	P	A	E>
1010	1020	1030	1040	1050											
*	*	*	*	*											
CTC	CCG	GAC	CAG	AAG	CAG	CTG	CGC	TAC	ACG	GAG	GAA	CTG	CTG	CGG	CAC
GAG	GGC	CTG	GTC	TTC	GTC	GAC	GCG	ATG	TGC	CTC	CTT	GAC	GAC	GCC	GTG
L	P	D	Q	K	Q	L	R	Y	T	E	E	L	L	R	H>
1060	1070	1080	1090	1100											
*	*	*	*	*											
GTG	GCC	CCT	GGG	TTG	CAC	CTG	GAG	CTT	CGG	GGG	CCA	CAG	CTG	TGG	GCC
CAC	CGG	GGA	CCC	AAC	GTG	GAC	CTC	GAA	GCC	CCC	GGT	GTC	GAC	ACC	CGG
V	A	P	G	L	H	L	E	L	R	G	P	Q	L	W	A>
1110	1120	1130	1140	1150											
*	*	*	*	*											
CGG	CGC	ATG	GGC	AAG	TGC	AAG	GTG	TAC	TGG	GAG	GTG	GGC	GGA	CCC	CCA
GCC	GCG	TAC	CCG	TTC	ACG	TTC	CAC	ATG	ACC	CTC	CAC	CCG	CCT	GGG	GGT
R	R	M	G	K	C	K	V	Y	W	E	V	G	G	P	P>

FIG. 12
CONTINUED

24/30

1160	1170	1180	1190	1200
*	*	*	*	*
GGC TCC GCC AGC CCC TCC ACC CCA GCC TGC CTG CTG CCT CGG AAC TGT				
CCG AGG CGG TCG GGG AGG TGG GGT CGG ACG GAC GAC GGA GCC TTG ACA				
G S A S P S T P A C L L P R N C>				
1210 1220 1230 1240				
*	*	*	*	*
GAC ACC CCC ATC TTC GAC TTC AGA GTC TTC CAA GAG CTG GTG GAA				
CTG TGG GGG TAG AAG CTG AAG TCT CAG AAG AAG GTT CTC GAC CAC CTT				
D T P I F D F R V F F Q E L V E>				
1250 1260 1270 1280 1290				
*	*	*	*	*
TTC CGG GCA CGG CAG CGC CGT GGC TCC CCA CGC TAT ACC ATC TAC CTG				
AAG GCC CGT GCC GTC GCG GCA CCG AGG GGT GCG ATA TGG TAG ATG GAC				
F R A R Q R R G S P R Y T I Y L>				
1300 1310 1320 1330 1340				
*	*	*	*	*
GGC TTC GGG CAG GAC CTG TCA GCT GGG AGG CCC AAG GAG AAG AGC CTG				
CCG AAG CCC GTC CTG GAC AGT CGA CCC TCC GGG TTC CTC TTC TCG GAC				
G F G Q D L S A G R P K E K S L>				
1350 1360 1370 1380 1390				
*	*	*	*	*
GTC CTG GTG AAG CTG GAA CCC TGG CTG TGC CGA GTG CAC CTA GAG GGC				
CAG GAC CAC TTC GAC CTT GGG ACC GAC ACG GCT CAC GTG GAT CTC CCG				
V L V K L E P W L C R V H L E G>				
1400 1410 1420 1430 1440				
*	*	*	*	*
ACG CAG CGT GAG GGT GTG TCT TCC CTG GAT AGC AGC GAC CTC GAC CTC				
TGC GTC GCA CTC CCA CAC AGA AGG GAC CTA TCG TCG CTG GAG CTG GAG				
T Q R E G V S S L D S S D L D L>				
1450 1460 1470 1480				
*	*	*	*	*
TGC CTG TCC AGC GCC AAC AGC CTC TAT GAC GAC ATC GAG TGC TTC CTT				
ACG GAC AGG TCG CGG TTG TCG GAG ATA CTG CTG TAG CTC ACG AAG GAA				
C L S S A N S L Y D D I E C F L>				
1490 1500 1510				
*	*	*	*	
ATG GAG CTG GAG CAG CCC GCC TAG				
TAC CTC GAC CTC GTC GGG CGG ATC				
M E L E Q P A>				

FIG. 12
CONTINUED

25/30

10	20	30	40												
*	*	*	*												
ATG	GCC	TTG	GCT	CCT	GAG	AGG	GCA	GCC	CCA	CGC	GTG	CTG	TTC	GGA	GAG
TAC	CGG	AAC	CGA	GGA	CTC	TCC	CGT	CGG	GGT	GCG	CAC	GAC	AAG	CCT	CTC
M	A	L	A	P	E	R	A	A	P	R	V	L	F	G	E>
50	60	70	80	90											
*	*	*	*	*											
TGG	CTC	CTT	GGA	GAG	ATC	AGC	AGC	GGC	TGC	TAT	GAG	GGG	CTG	CAG	TGG
ACC	GAG	GAA	CCT	CTC	TAG	TCG	TCG	CCG	ACG	ATA	CTC	CCC	GAC	GTC	ACC
W	L	L	G	E	I	S	S	G	C	Y	E	G	L	Q	W>
100	110	120	130	140											
*	*	*	*	*											
CTG	GAC	GAG	GCC	CGC	ACC	TGT	TTC	CGC	GTG	CCC	TGG	AAG	CAC	TTC	GCG
GAC	CTG	CTC	CGG	GCG	TGG	ACA	AAG	GCG	CAC	GGG	ACC	TTC	GTG	AAG	CGC
L	D	E	A	R	T	C	F	R	V	P	W	K	H	F	A>
150	160	170	180	190											
*	*	*	*	*											
CGC	AAG	GAC	CTG	AGC	GAG	GCC	GAC	GCG	CGC	ATC	TTC	AAG	GCC	TGG	GCT
GCG	TTC	CTG	GAC	TCG	CTC	CGG	CTG	CGC	GCG	TAG	AAG	TTC	CGG	ACC	CGA
R	K	D	L	S	E	A	D	A	R	I	F	K	A	W	A>
200	210	220	230	240											
*	*	*	*	*											
GTG	GCC	CGC	GGC	AGG	TGG	CCG	CCT	AGC	AGC	AGG	GGA	GGT	GGC	CCG	CCC
CAC	CGG	GCG	CCG	TCC	ACC	GGC	GGA	TCG	TCG	TCC	CCT	CCA	CCG	GGC	GGG
V	A	R	G	R	W	P	P	S	S	R	G	G	G	P	P>
250	260	270	280												
*	*	*	*												
CCC	GAG	GCT	GAG	ACT	GCG	GAG	CGC	GCC	GGC	TGG	AAA	ACC	AAC	TTC	CGC
GGG	CTC	CGA	CTC	TGA	CGC	CTC	GCG	CGG	CCG	ACC	TTT	TGG	TTG	AAG	GCG
P	E	A	E	T	A	E	R	A	G	W	K	T	N	F	R>
290	300	310	320	330											
*	*	*	*	*											
TGC	GCA	CTG	CGC	AGC	ACG	CGT	CGC	TTC	GTG	ATG	CTG	CGG	GAT	AAC	TCG
ACG	CGT	GAC	GCG	TCG	TGC	GCA	GCG	AAG	CAC	TAC	GAC	GCC	CTA	TTG	AGC
C	A	L	R	S	T	R	R	F	V	M	L	R	D	N	S>

FIG. 13

26/30

340 350 360 370 380
* * * * *
GGG GAC CCG GCC GAC CCG CAC AAG GTG TAC GCG CTC AGC CGG GAG CTG
CCC CTG GGC CGG CTG GGC GTG TTC CAC ATG CGC GAG TCG GCC CTC GAC
G D P A D P H K V Y A L S R E L>

390 400 410 420 430
* * * * *
TGC TGG CGA GAA GGC CCA GGC ACG GAC CAG ACT GAG GCA GAG GCC CCC
ACG ACC GCT CTT CCG GGT CCG TGC CTG GTC TGA CTC CGT CTC CGG GGG
C W R E G P G T D Q T E A E A P>

440 450 460 470 480
* * * * *
GCA GCT GTC CCA CCA CCA CAG GGT GGG CCC CCA GGG CCA TTC TTG GCA
CGT CGA CAG GGT GGT GTC CCA CCC GGG GGT CCC GGT AAG AAC CGT
A A V P P P Q G G P P G P F L A>

490 500 510 520
* * * *
CAC ACA CAT GCT GGA CTC CAA GCC CCA GGC CCC CTC CCT GCC CCA GCT
GTG TGT GTA CGA CCT GAG GTT CGG GGT CCG GGG GAG GGA CGG GGT CGA
H T H A G L Q A P G P L P A P A>

530 540 550 560 570
* * * * *
GGT GAC AAG GGG GAC CTC CTG CTC CAG GCA GTG CAA CAG AGC TGC CTG
CCA CTG TTC CCC CTG GAG GAC GAG GTC CGT CAC GTT GTC TCG ACG GAC
G D K G D L L Q A V Q Q S C L>

580 590 600 610 620
* * * * *
GCA GAC CAT CTG CTG ACA GCG TCA TGG GGG GCA GAT CCA GTC CCA ACC
CGT CTG GTA GAC GAC TGT CGC AGT ACC CCC CGT CTA GGT CAG GGT TGG
A D H L L T A S W G A D P V P T>

630 640 650 660 670
* * * * *
AAG GCT CCT GGA GAG GGA CAA GAA GGG CTT CCC CTG ACT GGG GCC TGT
TTC CGA GGA CCT CTC CCT GTT CTT CCC GAA GGG GAC TGA CCC CGG ACA
K A P G E G Q E G L P L T G A C>

680 690 700 710 720
* * * * *
GCT GGA GGC CCA GGG CTC CCT GCT GGG GAG CTG TAC GGG TGG GCA GTA
CGA CCT CCG GGT CCC GAG GGA CGA CCC CTC GAC ATG CCC ACC CGT CAT
A G G P G L P A G E L Y G W A V>

FIG. 13
CONTINUED

27/30

730	740	750	760	
*	*	*	*	
GAG ACG ACC CCC AGC CCC ACT TCT GAT ACC CAG GAA GAC ATT CTG GAT CTC TGC TGG GGG TCG GGG TGA AGA CTA TGG GTC CTT CTG TAA GAC CTA E T T P S P T S D T Q E D I L D>				
770	780	790	800	810
*	*	*	*	*
GAG TTA CTG GGT AAC ATG GTG TTG GCC CCA CTC CCA GAT CCG GGA CCC CTC AAT GAC CCA TTG TAC CAC AAC CGG GGT GAG GGT CTA GGC CCT GGG E L L G N M V L A P L P D P G P>				
820	830	840	850	860
*	*	*	*	*
CCA AGC CTG GCT GTA GCC CCT GAG CCC TGC CCT CAG CCC CTG CGG AGC GGT TCG GAC CGA CAT CGG GGA CTC CGG GGG ACG GGA GTC GGG GAC GCC TCG P S L A V A P E P C P Q P L R S>				
870	880	890	900	910
*	*	*	*	*
CCC AGC TTG GAC AAT CCC ACT CCC TTC CCA AAC CTG GGG CCC TCT GAG GGG TCG AAC CTG TTA GGG TGA GGG AAG GGT TTG GAC CCC GGG AGA CTC P S L D N P T P F P N L G P S E>				
920	930	940	950	960
*	*	*	*	*
AAC CCA CTG AAG CGG CTG TTG GTG CCG GGG GAA GAG TGG GAG TTC GAG TTG GGT GAC TTC GCC GAC AAC CAC GGC CCC CTT CTC ACC CTC AAG CTC N P L K R L L V P G E E W E F E>				
970	980	990	1000	
*	*	*	*	
GTG ACA GCC TTC TAC CGG GGC CGC CAA GTC TTC CAG CAG ACC ATC TCC CAC TGT CGG AAG ATG GCC CCG GCG GTT CAG AAG GTC GTC TGG TAG AGG V T A F Y R G R Q V F Q Q T I S>				
1010	1020	1030	1040	1050
*	*	*	*	*
TGC CCG GAG GGC CTG CGG CTG GTG GGG TCC GAA GTG GGA GAC AGG ACG ACG GGC CTC CCG GAC GCC GAC CAC CCC AGG CTT CAC CCT CTG TCC TGC C P E G L R L V G S E V G D R T>				
1060	1070	1080	1090	1100
*	*	*	*	*
CTG CCT GGA TGG CCA GTC ACA CTG CCA GAC CCT GGC ATG TCC CTG ACA GAC GGA CCT ACC GGT CAG TGT GAC GGT CTG GGA CCG TAC AGG GAC TGT L P G W P V T L P D P G M S L T>				

FIG. 13
CONTINUED

09/647965
PCT/CA99/00314

WO 99/51737

28/30

1110	1120	1130	1140	1150
*	*	*	*	*
GAC AGG GGA GTG ATG AGC TAC GTG AGG CAT GTG CTG AGC TGC CTG GGT				
CTG TCC CCT CAC TAC TCG ATG CAC TCC GTA CAC GAC TCG ACG GAC CCA				
D R G V M S Y V R H V L S C L G>				
1160	1170	1180	1190	1200
*	*	*	*	*
GGG GGA CTG GCT CTC TGG CGG GCC GGG CAG TGG CTC TGG GCC CAG CGG				
CCC CCT GAC CGA GAG ACC GCC CGG CCC GTC ACC GAG ACC CGG GTC GCC				
G G L A L W R A G Q W L W A Q R>				
1210	1220	1230	1240	
*	*	*	*	
CTG GGG CAC TGC CAC ACA TAC TGG GCA GTG AGC GAG GAG CTG CTC CCC				
GAC CCC GTG ACG GTG TGT ATG ACC CGT CAC TCG CTC CTC GAC GAG GGG				
L G H C H T Y W A V S E E L L P>				
1250	1260	1270	1280	1290
*	*	*	*	*
AAC AGC GGG CAT GGG CCT GAT GCC GAG GTC CCC AAG GAC AAG GAA GGA				
TTG TCG CCC GTA CCC GGA CTA CCG CTC CAG GGG TTC CTG TTC CTT CCT				
N S G H G P D G E V P K D K E G>				
1300	1310	1320	1330	1340
*	*	*	*	*
GGC GTG TTT GAC CTG GGG CCC TTC ATT GTA GAT CTG ATT ACC TTC ACG				
CCG CAC AAA CTG GAC CCC GGG AAG TAA CAT CTA GAC TAA TGG AAG TGC				
G V F D L G P F I V D L I T F T>				
1350	1360	1370	1380	1390
*	*	*	*	*
GAA GGA AGC GGA CGC TCA CCA CGC TAT GCC CTC TGG TTC TGT GTG GGG				
CTT CCT TCG CCT GCG AGT GGT GCG ATA CGG GAG ACC AAG ACA CAC CCC				
E G S G R S P R Y A L W F C V G>				
1400	1410	1420	1430	1440
*	*	*	*	*
GAG TCA TGG CCC CAG GAC CAG CCG TGG ACC AAG AGG CTC GTG ATG GTC				
CTC AGT ACC GGG GTC CTG GTC GGC ACC TGG TTC TCC GAG CAC TAC CAG				
E S W P Q D Q P W T K R L V M V>				
1450	1460	1470	1480	
*	*	*	*	
AAG GTT GTG CCC ACG TGC CTC AGG GCC TTG GTA GAA ATG GAC CGG GTA				
TTC CAA CAC GGG TGC ACG GAG TCC CGG AAC CAT CTT TAC CGG GCC CAT				
K V V P T C L R A L V E M A R V>				
1490	1500	1510	1520	1530
*	*	*	*	*
GGG GGT GCC TCC TCC CTG GAG AAT ACT GTG GAC CTG CAC ATT GAC AAC				
CCC CCA CGG AGG AGG GAC CTC TTA TGA CAC CTG GAC GTG TAA CTG TTG				
G G A S S L E N T V D L H I D N>				

FIG. 13
CONTINUED

09/647965

PCT/CA99/00314

WO 99/51737

29/30

1540	1550	1560	1570	1580											
*	*	*	*	*											
GAC	CAC	CCA	CTC	GAC	CTC	GAC	GAC	CAG	TAC	AAG	GCC	TAC	CTG	CAG	
CTG	GTG	GGT	GAG	CTG	GAG	CTG	CTG	CTG	GTC	ATG	TTC	CGG	ATG	GAC	GTC
D	H	P	L	D	L	D	D	D	Q	Y	K	A	Y	L	Q>
1590	1600	1610	1620												
*	*	*	*												
GAC	TTG	GTG	GAG	GGC	ATG	GAT	TTC	CAG	GGC	CCT	GGG	GAG	AGC	TGA	
CTG	AAC	CAC	CAC	CTC	CCG	TAC	CTA	AAG	GTC	CCG	GGA	CCC	CTC	TCG	ACT
D	L	V	E	G	M	D	F	Q	G	P	G	E	S>		

FIG. 13
CONTINUED

30/30

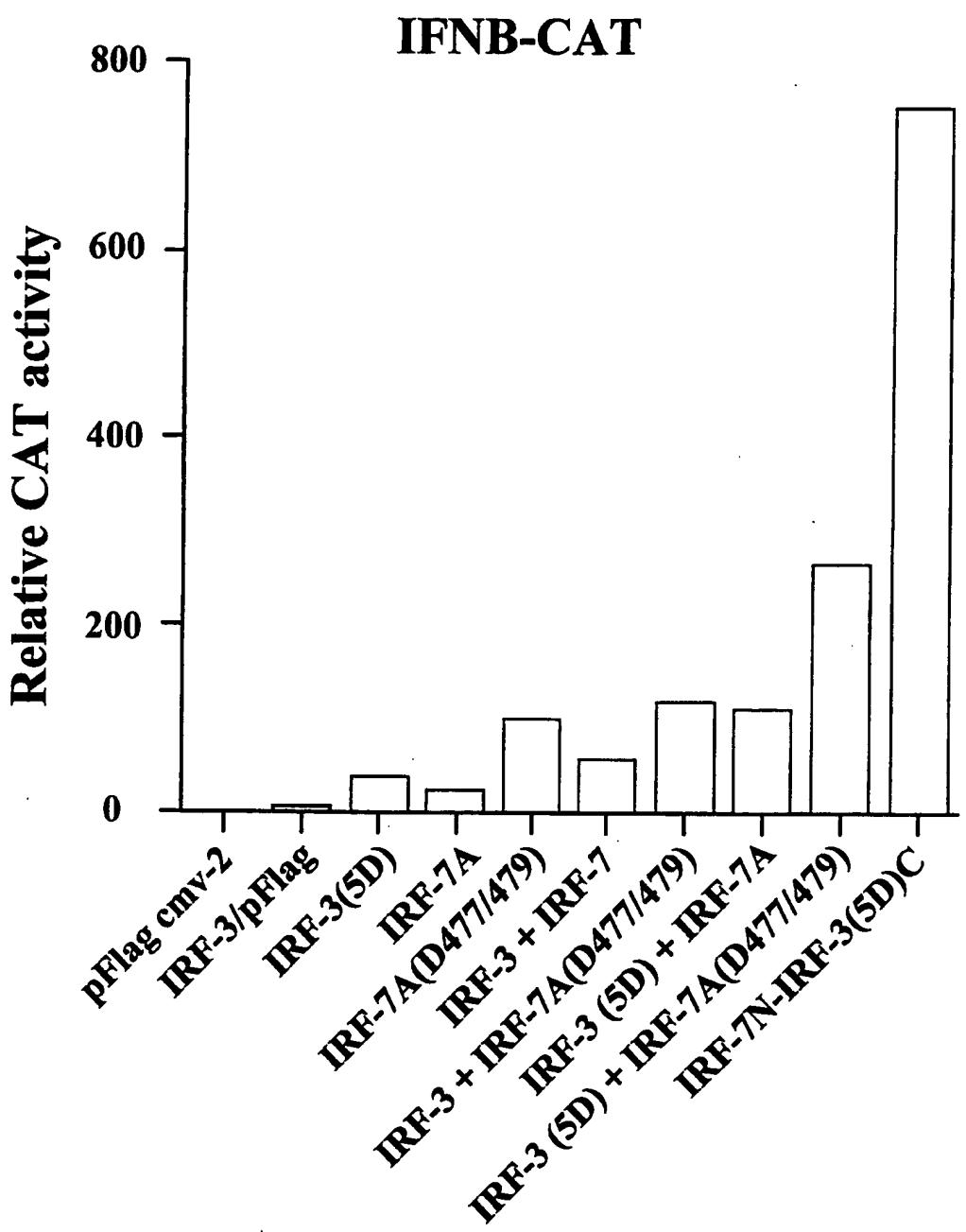


FIG. 14